

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

October 30, 2013

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-8510067, issued to NOBLE ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feet free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: PEN2AHS

Farm Name: KIESSLING, TERRY & HELEN

API Well Number: 47-8510067

Permit Type: Horizontal 6A Well

Date Issued: 10/30/2013

Promoting a healthy environment.

API Number: <u>85 - 1006</u>7

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. The Office of Oil and Gas has approved your permit application, which includes your addendum. Please be advised that the addendum is part of the terms of the well work permit, and will be enforced as such. The Office of Oil and Gas must receive a copy of all data collected, and submitted in a timely fashion, but no later than the WR35 submittal.
- 2. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE regarding this proposed activity.
- 3. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 4. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 5. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 6. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 7. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 8. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the

API Number:	API Number: _	
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PERMIT CONDITIONS

particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.

9. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

		3 01111-1111				1	539
1) Well Operator:	Noble I	Energy,	Inc.	494501907	085	Clay	Pennsboro
•				Operator ID	County	District	Quadrangle
2) Operator's Well	Number:	PEN2AHS		V	Vell Pad Nam	ne: PEN2	
3 Elevation, curren	t ground:	1074.85	Ele	evation, proposed p	post-construc	tion:	1075.4
4) Well Type: (a) C	as		Oil	Underground	d Storage	/ <u></u>	
	Other						
(b) I	f Gas: S	hallow		Deep			
		orizontal					
5) Existing Pad? Ye	es or No:	No					
6) Proposed Target	Formation(s), Depth(s), Anticipat	ed Thicknesses and	d Associated	Pressure(s):	
Target-Marcellus, Dep	th- 6262-6324;	Thickness- 62	2"; Pressure- 417	74 # psi			
7) Proposed Total V	ertical Dep	oth: 6	314'				
8) Formation at Tot	al Vertical	Depth:	Marcellus				
9) Proposed Total N	Measured D	epth:	15753				
10) Approximate Fi	esh Water	Strata Dep	ths: 4	54'			
11) Method to Dete	rmine Fres	n Water De	epth: C	losest well & Seneca To	echnology data t	pase	
12) Approximate Sa	altwater De	pths:	1244'				
13) Approximate C	oal Seam D	epths:	no coal				
14) Approximate D	epth to Pos	sible Void	(coal mine,	karst, other):	none		
15) Does proposed adjacent to an adjacent to adjace				lirectly overlying ond depth of mine:	or no		
16) Describe propos				oth to the Marcellus at an	estimated total ve	rtical depth of app	proximately 6314 feet.
Drill Horizontal leg - s	timulate and pr	oduce the Ma	rcellus Formation	n.			
Should we encounter a	unanticipated v	oid we will inst	all a minimum of	20' of casing below the voi	id but not more tha	in 50' set a basket	and grout to surface.
17) Describe fractur				ell. Stage spacing is depende	ent upon engineering	a design. Slickwate	r fracturing technique will
be utilized on each sta				otago spaning to aspanio		RECEI	√ED
		24				Office of Oil	and Gas
18) Total area to be	disturbed	including	roads stocks	nile area nits etc	(acres):	SEP 23 8.43	2013
19) Area to be distu				•	8.0	WV Depart	
				Dell 8.21		THOMAS ASSESSED.	Page 1 of 3

20)

CASING AND TUBING PROGRAM

ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	20"	N	LS	52	40'	40'	GTS
Fresh Water	13 3/8"	N	J-55	54.5	579'	579'	CTS
Coal							
Intermediate	9 5/8"	N	HCK-55 BTC	36.0	5410'	5410'	CTS
Production	5 1/2"	N	HCP-110 TXP BTC	20.0	15753'	15753'	14.8 ppg class A tail slurry to inside intermediate casing
Tubing							
Liners							

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	26"	0.25	2730	Grout to Surface	Grout to Surface
Fresh Water	13 3/8"	17.5"	.380	2730	Type 1	1.18
Coal						
Intermediate	9 5/8"	12.25"	.352	3520	Class A	1.19
Production	5 1/2"	8.75/8.5"	.361	12,640	Class A	1.27
Tubing						
Liners						

PACKERS

Kind:		
Sizes:		RECEIVED Office of Oil and Gas
Depths Set:		SEP 232013

WV Department of Environmental Protection Page 2 of 3

21) Describe centralizer placement for each casing string.	Conductor - No centralizers used. Fresh Water/Surface-
Bow spring centralizers every 3 joints to surface. Intermed	diate - Bow spring
centralizers on every joint to KOP, one every third joint from KOP to 100' from Surface.	
Production - Rigid bow spring every third joint from KOP to TOC, rigid	bow spring every joint to KOP.
22) Describe all cement additives associated with each cement typ	e. Conductor - 1.15% CaCl2.
Fresh Water - 1.15% CaCl2. Coal - 1.15% CaCl2, 0.6% Gas mig	ration control additive, 0.5% fluid loss additive,
0.4% Salt tolerant dispersant, and 0.3% defoamer. Intermediate - 10.0% BWOV	V NaCl, 0.2% BWOB Anti-foam, 0.3% BWOW Dispersant,
0.4% BWOB Cement retarder. Production: 2.6% Cement extender, 0.7%	6 Fluid Loss additive, 0.5% high temperature retarder,
0.2% friction reducer.	
23) Proposed borehole conditioning procedures. Conductor - Th	e hole is drilled w/ air and casing is run in air. Apart from insuring
the hole is clean via air circulation at TD, there are no other conditioning proce	edures. Fresh Water -The hole is drilled w/air and casing
is run in air. Once casing is on bottom, the hole is filled w/ KCl water and a mi	inimum of one hole volume is circulated prior to pumping
cement. Coal - The hole is drilled w/air and casing is run in air. Once casing is at setting depth	, the hole is filled w/ KCl water and a minimum of one hole volume
is circulated prior to pumping cement. Intermediate - Once surface casing is set and cemented Internet	mediate hole is drilled either on air or SOBM and filled w/ KCl water once
filled w/ KCI water once drilled to TD. The well is conditioned with KCI circulation prior to run	nning casing. Once casing is at setting depth, the well is circulated
a minimum of one hole volume prior to pumping cement. Production - The ho	ole is drilled with synthetic oil base mud and once at TD
·	ole is drilled with synthetic oil base mud and once at TI
pulled and casing is run. Once on bottom w/ casing the hole is circulated a minir	•

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SEP 23 2013

WV Department of Environmental Protection

	Page	of	
API Number 47 - 085	-		
Operator's Well	No. PEN2A	HS	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

85 10067

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator NameNo	ble Energy, Inc.		OP Code	494501907	
Watershed (HUC 10) North Fork of Hughs River HUC	10 / Bonds Creek Quad	rangle Pennsboro		
Elevation <u>1074.85</u>	Count	y_Ritchie	District_	Clay	
Do you anticipate u	sing more than 5,000 bbls of w	vater to complete the pro	posed well work?	Yes No	-
Will a pit be used for	or drill cuttings? Yes	No <u>x</u>			
	e describe anticipated pit waste		ilization of a pit		
Will a synt	hetic liner be used in the pit?	Yes No <u>x</u>	If so, what ml.?	?	and the second s
Proposed I	Disposal Method For Treated P	it Wastes:			
	Land Application Underground Injection	· —			
- - -	Reuse (at API Number Off Site Disposal (Sup Other (Explain	ply form WW-9 for disp	osal location))
Will closed loop sys	stem be used? yes				
Drilling medium an	ticipated for this well? Air, fre	eshwater, oil based, etc.	Air/water based mud the	rough intermediate string	then SOBM
-If oil base	d, what type? Synthetic, petro	leum, etc. Synthetic			
Additives to be used	I in drilling medium? Please s	see attached list			***
Drill cuttings dispos	sal method? Leave in pit, land	fill, removed offsite, etc	•		
-If left in p	it and plan to solidify what me	dium will be used? (ce	ment, lime, sawdust)		
-Landfill o	r offsite name/permit number?	Please see attached lis	t		
on August 1, 2005, provisions of the pelaw or regulation can a certify un application form a obtaining the inforpenalties for submit Company Official S	at I understand and agree to the by the Office of Oil and Gas of the Committee of Oil and Gas of the Committee of Oil and Gas of the Committee of Italian and I have the Italian attachments thereto an interpretation, I believe that the infecting false information, including the Committee of Italian attachment of Italian attachments thereto an including false information, including the Committee of Italian attachment of Italian attachments the Italian attachment of Italian attachme	f the West Virginia Dep Violations of any term we personally examined at that, based on my	artment of Environm or condition of the land am familiar winquiry of those industry, and complete. Notary Public, Stat LAURAL	rental Protection. I ur general permit and/or with the information solividuals immediately I am aware that ther AL SEAL to Of West Vliginia ADKINS BECE propation, inc. andeston, Wysting of Ofess November 20, 2015	nderstand that the other applicable submitted on this responsible for are are significant and Gas
Subscribed and swo	orn before me this Aber	el day of Jung		WV Depa Environment ary Public	artment of tal Protection

5 10067 Operator's Well No. PEN2CHS

Proposed Revegetation Tre	atment: Acres Disturbe	_{ed} 11.2		Prevegetati	ion pH	
•	Tons/acre or to o					
	0 or equivalent)		re (500 lbs minir	mum)		
Mulch	aw at 2	Tons/acr	e			
			/lixtures			
A	Area I				Area II	
Seed Type	lbs/acre		S	eed Type		lbs/acre
Tall Fescue	40		Tall Fescue		40	
Ladino Clover	5		Ladino Clov	er	5	
						
				, ,		
		£ ;-	- 4:			
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Orawing(s) of road, location Photocopied section of investigation of inves	olved 7.5' topographic s	sheet.			•	
Drawing(s) of road, locatio	olved 7.5' topographic s	sheet.			•	
Drawing(s) of road, locatio	olved 7.5' topographic s	sheet.				
Drawing(s) of road, locatio	olved 7.5' topographic s	sheet.				
Attach: Drawing(s) of road, location Photocopied section of involved Plan Approved by: Comments:	olved 7.5' topographic s	sheet.	5		RECE	VED Gas
Photocopied section of inverse Plan Approved by: Comments:	Devid a	sheet.	5		RECE!	VED Gas
Photocopied section of inverse Plan Approved by: Comments:	Devid a	sheet.	5		RECE!	VED Gas
Photocopied section of inverse Plan Approved by: Comments: Title: Oil and Gas Inspec	Devid a	sheet.			RECE!	VED Gas

west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01512	API/ID Number:	047-085-10067	Operator:	Noble Energy, Inc	
	-	PEN2AHS			

Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- Identification of sensitive aquatic life (endangered species, mussels, etc.);
- Quantification of known existing demands on the water supply (Large Quantity Users);
- Minimum flows required by the Army Corps of Engineers; and
- · Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

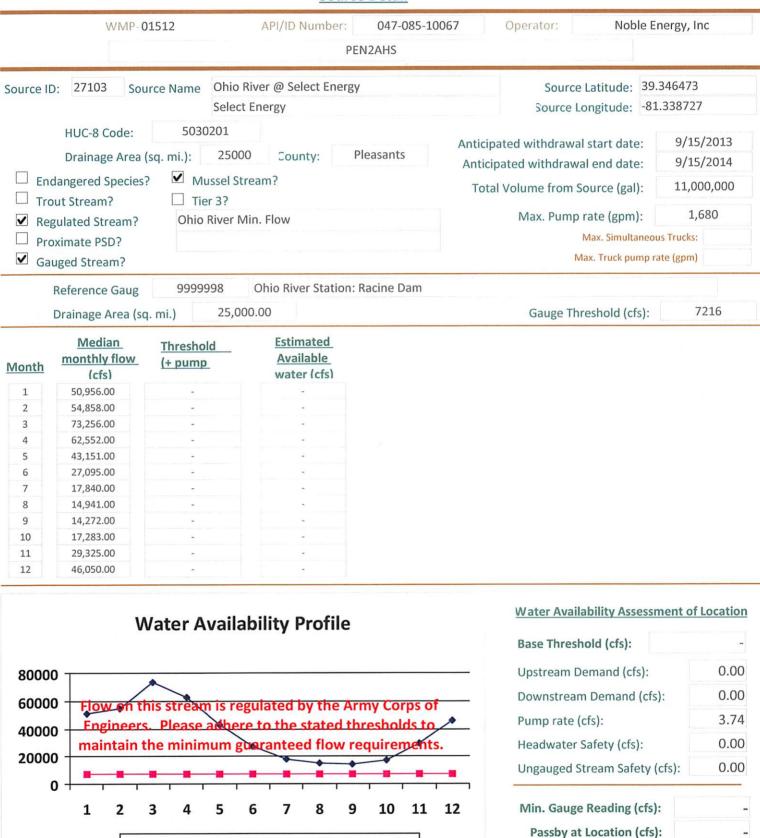
Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.

APPROVED OCT 2 8 2013

		Source	Summary			
WMP- 01	512	API Number:	047-085-10 PEN2AHS	067 0	perator: Noble E	inergy, Inc
Purchased Water						
Source Ohio River	@ Select Energy			Pleasants	Owner:	Select Energy
Start Date End Da 9/15/2013 9/15/20		Total Volume (gal) 11,000,000	Max. daily pu 500,0		Intake Latitude: 39.346473	Intake Longitude: -81.338727
✓ Regulated Stream?	Ohio River Min.	Flow Ref. Gauge ID	: 999999	8	Ohio River Station: Rac	ne Dam
Max. Pump rate (gpm)	: 1,680	Min. Gauge Readi	ng (cfs):	7,216.00	Min. Passby (cf	s)
DEP Com		r to the specified sta site: http://www.er			eather Service's Ohio Riv .shtml	ver forecast
Source West Virgi	nia American Wa	ter - Weston Water T	reatme	Lewis	Owner: West	Virginia American Water
Start Date End Da 9/15/2013 9/15/20		Total Volume (gal) 11,000,000	Max. daily pu 500,0		Intake Latitude: -	Intake Longitude:
✓ Regulated Stream?	Stonewall Jackson	Dam Ref. Gauge ID	: 306100	0 V	WEST FORK RIVER AT ENTE	RPRISE, WV
Max. Pump rate (gpm)	: 0	Min. Gauge Readi	ng (cfs):	170.57	Min. Passby (cf	s)
DEP Com	ments:	,				
Source Glenville U	Itility			Gilmer	Owner:	Glenville Utility
Start Date End Da 9/15/2013 9/15/20		Total Volume (gal) 11,000,000	Max. daily pu		Intake Latitude: -	Intake Longitude
Regulated Stream?	Burnsville	Dam Ref. Gauge ID	: 315500	0 LIT	TLE KANAWHA RIVER AT P	ALESTINE, WV
Max. Pump rate (gpm)	: 0	Min. Gauge Readi	ng (cfs):	303.75	Min. Passby (cf	s)
DEP Com	ments:					

Source Detail



[&]quot;Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Median Monthly Flow -- Threshold

			Source Detail			
	WMP-0	1512	API/ID Number: 047-085 PEN2AHS	-10067 Operator: Nob	ole Energy, I	nc
Source II	D: 27104 Sou		Virginia American Water - Westo Virginia American Water	on Water Treat Source Latitude: Source Longitude:		
☐ Tro	HUC-8 Code: Drainage Area (dangered Species? out Stream? gulated Stream? oximate PSD? uged Stream?		ream? ackson Dam	Anticipated withdrawal start date Anticipated withdrawal end date Total Volume from Source (gal Max. Pump rate (gpm Max. Simulti Max. Truck pu	e: 9/13 1): 11,0): aneous Trucks	
	Reference Gaug Drainage Area (sq	3061000 . mi.) 759	WEST FORK RIVER AT ENTERPE	RISE, WV Gauge Threshold (c	fs):	234
Month 1 2 3 4 5 6 7 8 9 10 11 12	Median monthly flow (cfs) 321.23 361.67 465.85 266.43 273.47 137.03 88.78 84.77 58.98 57.83 145.12 247.76	Threshold (+ pump	Estimated Available water (cfs)			
	W	/ater Availa	ability Profile	Water Availability Ass Base Threshold (cfs):	essment of	Location -
500 - 400 - 300 - 200 -	Elew on th Engineers maintain t	. Pl ease a dher	gulated by the Army Corps e to the stated thresholds uaranteed flow requiremen	Pump rate (cfs):	(cfs):	24.32 0.00 0.00 8.08
100 -				Ungauged Stream Safe	ety (cfs):	0.00

10

11

12

Min. Gauge Reading (cfs): Passby at Location (cfs):

9

8

1

2

3

5

6

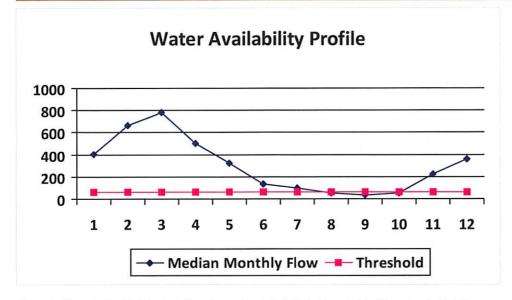
Median Monthly Flow — Threshold

[&]quot;Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Source Detail

WMP-01512	API/ID Number:	047-085-10067	Operator:	Noble En	ergy, Inc
	PE	N2AHS			
ource ID: 27105 Source Name	Glenville Utility		Source	Latitude: -	
	Glenville Utility		Source Lo	ongitude: -	
HUC-8 Code: 503	0203	Anti	cipated withdrawal	start date:	9/15/2013
Drainage Area (sq. mi.): 385.94 County: Gilmer ✓ Endangered Species? ✓ Mussel Stream? ☐ Trout Stream? ☐ Tier 3?			Anticipated withdrawal end date:		9/15/2014
			Total Volume from Source (gal):		
☐ Regulated Stream? Burn	sville Dam		Max. Pump	rate (gpm):	0
☐ Proximate PSD?				Max. Simultaneous	Trucks:
✓ Gauged Stream?			M	ax. Truck pump rat	e (gpm)
Reference Gaug 3155	000 LITTLE KANAWHA F	RIVER AT PALESTINE, W	/V		
Drainage Area (sq. mi.)	1,516.00		Gauge Thr	eshold (cfs):	243

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	407.80	77.33	331.59
2	669.98	77.33	593.76
3	785.33	77.33	709.12
4	505.51	77.33	429.29
5	324.07	77.33	247.85
6	132.12	77.33	55.90
7	99.89	77.33	23.68
8	56.28	77.33	-19.94
9	35.11	77.33	-41.11
10	52.89	77.33	-23.32
11	223.44	77.33	147.23
12	363.54	77.33	287.32



Base Threshold (cfs):	61.86
Upstream Demand (cfs):	0.00
Downstream Demand (cfs):	0.00
Pump rate (cfs):	0.00
Headwater Safety (cfs):	15.47
Ungauged Stream Safety (cfs):	0.00
Min. Gauge Reading (cfs):	303.75
Passby at Location (cfs):	

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP-01512 API/ID Number 047-085-10067 Operator: Noble Energy, Inc
PEN2AHS

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Lake/Reservior

Source ID:	27106	Source Name	Bonds Creek Si	te No. 1 (WV0850	3)	Source start of		9/15/2013 9/15/2014
		Source Lat:	39.316142	Source Long:	-80.98423	County		Ritchie
		Max. Daily Pu	irchase (gal)		Total Volu	ime from Source (ga	I):	11,000,000
	DEP Co	omments: L	ocation also kno	own as Tracy Lak	e or Bonds Cree	k Lake		

WMP-01512 API/ID Number 047-085-10067 Operator: Noble Energy, Inc PEN2AHS

Important:

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Multi-s	ite	impo	undm	ent
			O-1 11 10 11 11 11	

	impe	oundment					
Source ID:	27107	Source Name	FLG Tank Pad			Source start date:	9/15/2013
					Source end date:	9/15/2014	
		Source Lat:	39.335467	Source Long:	-80.001958	County	Ritchie
		Max. Daily Pu	rchase (gal)		Total Volur	me from Source (gal):	11,000,000
	DEP Co	omments:					
Recycled	Frac \	Vater					
Source ID:	27108	Source Name	Various			Source start date:	9/15/2013
Source ID:	27108	Source Name	Various			Source start date: Source end date:	9/15/2013 9/15/2014
Source ID:	27108	Source Name	Various	Source Long:			
Source ID:	27108			Source Long:	Total Volur	Source end date:	

